

Patent Claims

1. A process of allowing direct access for individual subscribers to a digital cellular phone network with existing cell broadcast services, whereby the cellular phones of the subscribers are equipped to exchange point-to-point short messages with a short-message center over the cellular phone network, whereby short messages declared cell broadcast messages are forwarded to a cell broadcast center, characterized by the fact that the point-to-point short messages are accepted from a coupling instance connected to the short-message center; the necessary tests, adjustments and conversions of the messages are done in the coupling instance; an authentication and/or filtering and/or selection of the subscribers takes places; and the messages are forwarded to the cell broadcast center by means of a process that applies to the cell broadcast center.
2. The process in Claim 1, characterized by the fact that the parameters necessary for using cell broadcast, such as giving the area into which the broadcast message is to be beamed, are given by the subscriber in the point-to-point short message.
3. The process in Claim 1, characterized by the fact that the parameters necessary for using cell broadcast are set and given by the subscriber and/or network provider beforehand and are added to the broadcast message by the coupling instance.
4. The process in one of Claims 1 to 3, characterized by the fact that the area to which the broadcast message applies is determined by giving the dialing prefix, the postal code or the vehicle license number.
5. The process in one of Claims 1 to 4, characterized by the fact that accounting methods existing in the cellular phone network are used.
6. The process in one of Claims 1 to 5, characterized by the fact that the accounting methods provided in the coupling instance are used.

7. A device for allowing direct access for individual subscribers to a digital cellular phone network with existing cell broadcast services, whereby the cellular phones of the subscribers are equipped to exchange point-to-point short messages with a short-message center over the cellular phone network, whereby short messages declared cell broadcast messages are forwarded to a cell broadcast center, characterized by the fact that:
a coupling instance (3) connected to the short message center (2) is provided, which accepts point-to-point short messages (6); by the fact that in the coupling instance (3) means of doing the necessary tests, adjustments and conversions of the messages and an authentication component and/or filter component (9) are provided; and by the fact that the coupling instance (3) is connected to the cell broadcast center (4) to which the processed messages are forwarded.
8. The device in Claim 7, characterized by the fact that the point-to-point short messages (6) contain parameters for defining the broadcast area and, if necessary, other parameters.
9. The device in one of Claims 7 or 8, characterized by the fact that an accounting instance (8) is provided in the coupling instance (3).